

Technical Program

Sunday, November 15, 2015

7:00 a.m. – 6:00 p.m.	Registration
8:30 a.m. – 5:00 p.m.	Short Course: The Practice of Forensic Engineering
8:30 a.m. – 12:00 p.m.	Short Course: The Standard of Care
1:00 – 5:00 p.m.	Short Course: Investigation of Hurricane Damage: Wind vs. Water
5:30 – 7:00 p.m.	Welcome Reception

Monday, November 16, 2015

7:00 a.m. – 5:00 p.m.	Registration				
7:30 – 8:30 a.m.	Continental Breakfast				
8:30 – 10:00 a.m.	Opening Plenary Session				
9:00 – 10:00 a.m.	Guest Orientation Breakfast				
10:00 a.m. – 3:30 p.m.	Exhibits				
10:00 – 10:30 a.m.	Networking Break				
10:30 a.m. – 12:00 p.m.	Concurrent Technical Sessions				
	TRACK A - Concerto A	TRACK B - Concerto B	TRACK C - Concerto C		
	Building Envelope, Geotechnical, Performance of Materials Facades Track Chair: Anthony Dolhon, Exponent Moderator: Ziad Salameh, ZSLLC	Infrastructure, Special Structures, Special Topics I Methodology I Track Chair: Kenneth L. Carper, Professor Emeritus Moderator: Alicia Diaz de LeonB	Professional Practice, Forensic Investigations II Anatomy of a Forensic Engineering Project Track Chair: Benjamin M. Cornelius, Leslie E. Robertson Associates Moderator: James Cohen, Thornton Tomasetti		
	TRACK D - Concerto D Infrastructure, Special Structures, Special Topics II Bridges Track Chair: Michael Lester, Element Analytical PLLC Moderator: Michael Lester	The Tale of Two Stones Derek Hodgjin, P.E., and John Wylie, E.I. , Construction Science and Engineering, Inc. Weeping "Stucco Buckets" Robert Bateman, AIA, and Rene Luft, Ph.D., P.E., SE , Simpson Gumpertz & Heger, Inc. Forensic Facade Restoration of Lost Gems of NYC Benjamin Lavon, P.E., and Kendra Logan, RA, LEED AP , Feld Kaminetzky & Cohen Division of GEI Consultants	Some Aspects of the Measurement of Vibration Intensity for the Assessment of Building Structures A.P. Jeary, T. Winant, and J. Bunyan , Stram Group A New Structural and Metallurgical Review of the Great Boston Molasses Tank Failure of 1919 Ronald Mayville , Simpson Gumpertz & Heger	Panel includes: Marc Shortino , Gartner + Bloom Wajdi Atallah , SBI Consultants Peter Jagger , Aon <i>See page 8 for a full description of this panel discussion.</i>	Seismic Restoration Cost Curve of Curved Steel Bridges Junwon Seo, Ph.D., P.E. , South Dakota State University; Heedae Park, Ph.D. , Iowa State University Collapses of Single Column Pier Bridges in China Rui Liu, Ph.D., P.E. , Kent State University; Yongcheng Ji, Ph.D. Candidate, and Kevin Rens, Ph.D., P.E. , University of Colorado Denver Finite Element Analysis of Cable-Stayed Strands Failure due to Fire Hossein Ataei, Ph.D., P.Eng., M.ASCE , Syracuse University; Mohammadhossein Mamaghani, S.M.ASCE , Syracuse University; Riyad Aboutaha, Ph.D. Early Age Cracking of SHCC Bridge Deck Link Slabs En-Hua Yang, Ph.D. , Nanyang Technological University; Victor Li, Ph.D. , University of Michigan; Jishen Qiu , Nanyang Technological University
12:00 – 1:30 p.m.	Networking Lunch				
1:30 – 3:00 p.m.	Concurrent Technical Sessions				

Monday, November 16, 2015 *(continued)*

TRACK A - Concerto A	TRACK B - Concerto B	TRACK C - Concerto C	TRACK D - Concerto D
<p>Building Envelope, Geotechnical, Performance of Materials Building Envelope Leakage Track Chair: Anthony Dolhon, Exponent Moderator: Sean O'Brien, Simpson, Gumpertz & Heger, Inc.</p>	<p>Forensic Investigations I - Hurricanes, Failures During Construction, Methodology, Disasters Failures During Construction Track Chair: Kenneth L. Carper, Professor Emeritus Moderator: Kenneth B. Simons, Damage Consultants, Inc.</p>	<p>Professional Practice, Forensic Investigations II Investigation Methods/Codes and Standards Track Chair: Benjamin M. Cornelius, Leslie E. Robertson Associates Moderator: Paul Bennett, Exponent</p>	<p>Infrastructure, Special Structures, Special Topics Special Structures I Track Chair: Michael Lester, Element Analytical PLLC Moderator: Clemens J. Rossell, The Boeing Company</p>
<p>Balcony View Bart Barrett, P.E., M. ASCE, and David Cannon, AIA, Nelson Forensics</p> <p>Investigation and Repair of a Curtain Wall Damaged by Blast Alexandar Mlynarczyk, P.E., Wiss, Janney, Elstner Associates, Inc.</p> <p>Air Leakage, Moisture Migration, and Condensation in the Building Enclosure Sean O'Brien, P.E.; Cheryl Saldanha, P.E.; and Jason DerAnanian, P.E., Simpson Gumpertz & Heger, Inc.</p> <p>Adhered Masonry Veneer Failures Kimball Beasley, P.E., FASCE, Wiss Janney Elstner Assoc.</p>	<p>Column Reinforcing Cage Stability and Construction Safety Cliff Bishop, Ph.D., and Patxi Uriz, Ph.D., P.E., Exponent</p> <p>A Case Study on a Partial Collapse of a Building with Light Gage Steel Framing System Ibrahim Erdem, Ph.D., P.E., S.E., and David Peraza, P.E., Exponent Inc.</p> <p>Prevention of Construction Failures: A Systematic Approach Ilias Ortega, Ph.D., P.E., Design and Consulting</p> <p>Issues Facing Design Professionals through the Lens of Two Rain-Induced Roof Collapses John Lawson, S.E., Cal Poly, San Luis Obispo; Michael Parolini, S.E., Smith Structural Group, LLP</p>	<p>Systems for Structural Failure Investigations in the United States Norbert Delatte, P.E., Ph.D., F.ACI, Cleveland State University</p> <p>Developing the Right Protocol for Investigation R. Scott Silvester, P.E., Simpson Gumpertz & Heger Inc.; Stephen Stuke, Esq., Cole Scott & Kissane, P.A.; Robert Antes, EIT, Simpson Gumpertz & Heger Inc.</p> <p>Survey of the Means of Egress Provisions in Construction Codes of the City of New York Anthony Dolhon, P.E., and Ibrahim Erdem, Ph.D., P.E., Exponent, Inc.</p> <p>Incident Site Management: Managing and Documenting an Incident Scene Scott Nesvold, M.S., M. Eng., P.E, and James Panko, P.E., S.E., Crane Engineering</p>	<p>Partial Failure of a Bulk Storage Facility: Construction Defect vs. Design Error Michael Lester, P.E., Element Analytical, PLLC</p> <p>Steel Bin Failure and Partial Collapse of a Coal Processing Plant Terence Taylor, P.E., Mine Safety & Health Administration</p> <p>Analysis of Design Codes for Agricultural Storage Bins Daniel Wojnowski, Ph.D., P.E., and Randall Bernhardt, S.E., P.E., ESI</p> <p>Load Testing as Part of Evaluation of a Recently Constructed Precast Concrete Parking Structure Michael J. Drerup, P.E., Building Envelope Consultants and Scientists; Steven Smith, Ph.D., P.E., SJ Smith Consulting, LLC</p>
3:00 – 3:30 p.m. Networking Break			
3:30 – 5:00 p.m. Concurrent Technical Sessions			
TRACK A - Concerto A	TRACK B - Concerto B	TRACK C - Concerto C	TRACK D - Concerto D
<p>Building Envelope, Geotechnical, Performance of Materials Masonry Track Chair: Anthony Dolhon, Exponent Moderator: Ziad Salameh, ZSLLC</p>	<p>Forensic Investigations I - Hurricanes, Failures During Construction, Methodology, Disasters Anatomy of a Limited Investigation Track Chair: Kenneth L. Carper, Professor Emeritus Moderator: Michael J. Drerup, BECS</p>	<p>Professional Practice, Forensic Investigations II Standard of Care Track Chair: Benjamin M. Cornelius, Leslie E. Robertson Associates Moderator: Lloyd M. Sonenthal, Consulting Forensic Engineer</p>	<p>Infrastructure, Special Structures, Special Topics Special Structures II Track Chair: Michael Lester, Element Analytical PLLC Moderator: Ibrahim Erdem, Exponent</p>
<p>Forensic Investigation of Masonry Block Wall Cracking William Bracken, P.E., F.SEI, F.ASCE, and Jose Busquets, P.E., Bracken Engineering, Inc.</p> <p>Lessons Learnt from the Partial Collapse of a Historical Masonry Building Fabrizio Palmisano, Ph.D., and Amedeo Vitone, Prof., Politecnico di Bari</p> <p>Benefits of Helical Bar Reinforcing in Preserving Historic Masonry Facades Eric Hammarberg and Jared Shoemaker, P.E., M.ASCE, WJE Engineerings & Architects, P.C.</p> <p>Failure of a Thin Limestone Facade Rahul Ratakonda, P.E, and Anthony Dolhon, P.E, and David Peraza, P.E, Exponent Inc.</p>	<p>Panel Includes: Michael J. Drerup, P.E., M.ASCE, BECS Anthony Dolhon, P.E., M.ASCE, Exponent Michael Lester, P.E., M.ASCE, Element Analytical</p> <p><i>See page 8 for a full description of this panel discussion.</i></p>	<p>Forensic Engineering Analysis of the Standard of Care in Construction Claims Kevin Ouellette, P.E., Evan Fall Protection</p> <p>Forensic Engineering: Issues of Transition James Cohen, P.E., Thornton Tomasetti</p> <p>The Standard of Care, and Ethics of Forensic Engineering Testimony Joshua Kardon, Ph.D., SE, F.ASCE, Joshua B. Kardon + Co. Structural Engineers</p> <p>The Peer Review Process in Forensic Engineering James Cohen, P.E., Thornton Tomasetti</p>	<p>Field Investigation of a Failed Concrete Cone Spreader Inside of a Cement Mixing Silo Jason Gregorie, M.S., P.E., M.ASCE, and Luis Mariaca, M.S., P.E., M.ASCE, Applied Building Sciences, Inc.</p> <p>Environmental Loading on Temporary Structures Based on the 2014 NYC Building Code Jason Andrew, EIT; Luis Valderruten, P.E.; Elisabeth Malsch, Ph.D., P.E.; and James Feuerborn Jr., P.E., Thornton Tomasetti</p> <p>Buckling Analysis of Arched Structures using Finite Element Analysis Hossein Ataei, Ph.D., P.Eng., M.ASCE, Syracuse University; Abdel-Salam M. Niazay, Ph.D., P.E., University of Southern California</p> <p>The Progressive Collapse of Single-Layer Dome Roof Structures Shen Yan, Ph.D., and Xianzhong Zhao, Ph.D, Tongji University</p>

Tuesday, November 17, 2015

7:00 a.m. – 5:00 p.m.	Registration		
7:30 – 8:30 a.m.	Continental Breakfast		
7:30 – 8:30 a.m.	International Roundtable Discussion		
8:30 a.m. – 12:00 p.m.	Committee Meetings		
10:00 a.m. – 3:30 p.m.	Exhibits		
10:00 – 10:30 a.m.	Order of the Engineer		
12:00 – 1:30 p.m.	Forensic Engineering Awards Luncheon		
1:30 – 3:00 p.m.	Concurrent Technical Sessions		
TRACK A - Concerto A	TRACK B - Concerto B	TRACK C - Concerto C	TRACK D - Concerto D
Building Envelope, Geotechnical, Performance of Materials Roofing Track Chair: Anthony Dolhon, Exponent Moderator: John Lawson, Cal Poly San Luis Obispo	Forensic Investigations I – Hurricanes, Failures During Construction, Methodology, Disasters Methodology II Track Chair: Kenneth L. Carper, Professor Emeritus Moderator: Charles DeVore, Exponent	Professional Practice, Forensic Investigations II Practice Issues, Insurance Track Chair: Benjamin M. Cornelius, Leslie E. Roberston Associates Moderator: Kenneth L. Carper, Professor Emeritus	Infrastructure, Special Structures, Special Topics Professional Ethics/SOC in Hurricane Damage Investigation Track Chair: Michael Lester, Element Analytical PLLC Moderator: Troy Morgan, Exponent
Hail Impact Testing of Masonite Shingles Paul Bennett, P.E. , Exponent; James Staebler, P.E. , and Stanley Stoll, P.E. , Knott Laboratory Hail Evaluation of Bituminous Roofing Membranes: Understanding Interply Mopping Voids Justin Donaldson, P.E. ; Marco DeLeon, P.E. , and Stewart Verhulst, P.E. , Nelson Forensics Assessing Wind Damaged Masonite Shingles Stanley Stoll, M.Eng., P.E. , Knott Laboratory, LLC; Paul Bennett, M.S., P.E. , CBIE, Exponent, Inc The Anatomy of the Failure of a Wood Panelized Roof Subpurlin Hanger Kenneth Simons, Ph.D., P.E., F.ASCE , Damage Consultants, Inc.; Zeno Martin, P.E., S.E. , and Kip Gatto, P.E., S.E. , Wiss, Janney, Elstner Associates, Inc.	The Benefit of Using Bayesian Structural Reliability Language and Theory in a Forensic Investigation of an Existing Building Gary Hart, Ph.D. , Thornton Tomasetti Case Studies of Finite Element Analysis in Structural Failure Investigation Nicholas Catella, S.E., P.E. , Simpson Gumpertz & Heger 3D Documentation and Printing in Forensics Kevin Kianka, P.E. , Haag 3D Solutions Evaluating the Validity and Reliability of Crack Dating Methods Laura Sullivan-Green, Ph.D. , San Jose State University	CROSS – Confidential Reporting on Structural Safety Alastair Soane, BSc, OPh.D., CEng, FICE, FStructE , Structural-Safety Failure Histories of Three Masonry Structures: Liability of the Professional Figures Involved during Design and Construction Phases Paola Provenzano, Ph.D. , and Giuseppe Iddas , GQI ASSOCIATI Engineering and Architecture Can A Single Flood Event Result in Fungal Growth Beneath Tile? Kathryn Rubin, Erik Moore, P.E. , and Ralph Moon, Ph.D. , GHD Challenges with a Roof Collapse – Causation, Subrogation and Structural Rehabilitation David VanDerostyne, P.E., S.E. , Construction Consulting	Panel Includes: William Bracken , Bracken Engineering, Inc. Kerra Hicks , Balch & Bingham Wes Jordan , Rimkus Consulting Joshua B. Kardon, P.E., M.ASCE , Josh B. Kardon and Associates, Group <i>See page 8 for a full description of this panel discussion.</i>
3:00 – 3:30 p.m.	Networking Break		
3:30 – 5:00 p.m.	Concurrent Technical Sessions		



TRACK A - Concerto A	TRACK B - Concerto B	TRACK C - Concerto C	TRACK D - Concerto D
<p>Building Envelope, Geotechnical, Performance of Materials Geotechnical Track Chair: Anthony Dolhon, Exponent Moderator: Ming Zhu, Geosyntec Consultants</p>	<p>Forensic Investigations I - Hurricanes, Failures During Construction, Methodology, Disasters Hurricanes II Track Chair: Kenneth L. Carper, Professor Emeritus Moderator: Charles DeVore, Exponent</p>	<p>Professional Practice, Forensic Investigations II Collapse Track Chair: Benjamin M. Cornelius, Leslie E. Roberston Associates Moderator: Rui Liu, Kent State University</p>	<p>Infrastructure, Special Structures, Special Topics Special Topics I - Wood, Vibration, Flooring Track Chair: Michael Lester, Element Analytical PLLC Moderator: Cliff Bishop, Exponent</p>
<p>Interpreting Damage to Existing Structures Adjacent to Construction Sites Nathaniel Smith, P.E., and Milan Vatovec, P.E., Ph.D., Simpson Gumpertz & Heger</p> <p>Site Characterization and Evaluation of a Deep Seated Slope Movement Brian Ladd, P.E., S&ME, Inc.</p> <p>Determining Damage Contributions from the Loss or Instability of Soil within a Foundation's Influence Zone William Bracken, P.E., F.SEI, F. ASCE; Jose Busquets, P.E.; and Constance Campbell Brashear, P.E., Bracken Engineering, Inc.</p> <p>A Case Study of Ground Vibrations Due to Pile Driving in Mobile, Alabama John Cleary, Ph.D.; Andrew Gillis, EIT; and Eric Steward, Ph.D., University of South Alabama</p>	<p>Hurricane Wind Generated Debris Impact Damage to Glazing of High Rise Building Anurag Jain, Ph.D., P.E., Thornton Tomasetti</p> <p>Update on Design of Residential Structures in Florida Leonard Morse-Fortier, Ph.D., P.E., Simpson Gumpertz & Heger Inc.</p> <p>Building Code Changes Resulting from FEMA's Hurricane Sandy Mitigation Assessment Team Report John Ingargiola, EI,CBO, CFM, Federal Emergency Management Agency; Adrienne Sheldon, P.E., CFM, and Laura Ghorbi, P.E., CFM, AECOM</p> <p>Evaluation and Repair of Tornado Damage to an Historic Church Michael Horst, P.E., and Benjamin Clemons, P.E., Wiss, Janney, Elstner Associates, Inc.</p>	<p>Walkway Collapse at the Botanical Gardens: A Study in Movement Daniel R. Cook, P.E., S.E., and Dominic J. Kelly, P.E., S.E., Simpson Gumpertz & Heger Inc.</p> <p>Defining Where Progressive Collapse Protection Is Needed Eve Hinman, Eng. SC. D., P.E., Hinman Consulting Engineers; Douglas Patin, Esq., Bradley Arant Coult Cummings LLP; Eve Hinman, Eng.Sc.D., P.E., Hinman Consulting Engineers</p> <p>Uncertainties in Structural Collapse Mitigation Shalva Marjanishvili, DSc, P.E., SE, Hinman Consulting Engineers, Inc; Serdar Astarlioglu, Ph.D., Hinman Consulting Engineers</p> <p>Disproportionate Collapse - How to Check the Computer Analysis John Abruzzo, P.E., Thornton Tomasetti Inc.</p>	<p>Establishing In-Place Structural Drying Goals, A Scientific Approach Jeffrey Wilemon, B.S., CIEC, GHD</p> <p>Consideration of Wet Service Conditions on the Performance of Bowstring Trusses Behnam Arya, Ph.D., P.E., and Anurag Jain, Ph.D., P.E., Thornton Tomasetti, Inc.</p> <p>Review of Codes and Standards for Noise and Vibration Investigations in Buildings Charles DeVore, Ph.D., and Eric Ahlberg, Ph.D., P.E., Exponent, Inc.</p> <p>Investigation of Different Types of Seismic Base Isolators for a Continuous Box Girder Bridge Ardalan Sabamehr, Ph.D., and Ashutosh Bagchi, Concordia University</p>



Wednesday, November 18, 2015

7:00 – 11:00 a.m.		Registration	
7:30 – 8:30 a.m.		Continental Breakfast	
8:30 – 10:00 a.m.		Concurrent Technical Sessions	
TRACK A - Concerto A	TRACK B - Concerto B	TRACK C - Concerto C	TRACK D - Concerto D
<p>Building Envelope, Geotechnical, Performance of Materials Performance of Materials Track Chair: Leonard Morse-Fortier, Simpson, Gumpertz & Heger Moderator: Ron Anthony, Anthony & Associates</p>	<p>Forensic Investigations I – Hurricanes, Failures During Construction, Methodology, Disasters Seismic/Wind Track Chair: Kenneth L. Carper, Professor Emeritus Moderator: Reza Imani, Thornton Tomasetti</p>	<p>Professional Practice, Forensic Investigations II Concrete Track Chair: Lloyd M. Sonenthal, Consulting Forensic Engineer Moderator: Paul Bosela, Cleveland State University</p>	<p>Infrastructure, Special Structures, Special Topics Special Topics II - Repair, Ceiling Failures, Fireproofing, etc. Track Chair: Michael Lester, Element Analytical PLLC Moderator: Ali Ashrafi, Thornton Tomasetti</p>
<p>Wood Swelling: Force Exerted from Saturated Wood Materials Nolan Wells, BME, EIT, and Ralph Moon, Ph.D., GHD</p> <p>Needle in a Haystack: Identifying Failure Origin Pieces in Heat-Treated Glass Stewart Verhulst, P.E., Nelson Forensics; A. William Lingnell, M.S., P.E., Lingnell Consulting Services; Brenden Adams, M.S., P.E., Thornton Tomasetti, Inc.</p> <p>Electrical Resistivity Measurement to Study Alkali-Silica-Reaction Cracking in Mortar Jessica Flores, B.S.; Mahsa Kamali, M.S.; and Ali Ghahremaninezhad, Ph.D., University of Miami</p> <p>Duration of a Water Loss: Moisture Absorption by Particle Board Cabinets Ralph Moon, Ph.D., and Brett Davis, CRC, GHD</p>	<p>Structural Damage Allocation from Sequential Earthquakes Behnam Arya, Ph.D., P.E.; Anurag Jain, Ph.D., P.E.; Can C. Simsir, Ph.D., P.E.; Mohammadtaghi Rahmani, Ph.D.; and Daren G. Reyes, MSc, Thornton Tomasetti</p> <p>Numerical Investigation of the Failures Observed in Eccentrically Braced Frames in the Aftermath of Christchurch Earthquake Series (2010-2011) Reza Imani, Ph.D., Thornton Tomasetti; Michel Bruneau, Ph.D., P.E., University of Buffalo</p> <p>Experimental and Numerical Investigation on Resistance and Failure Behavior of Ductile Concrete-Filled Double-Skin Tube Columns Subjected to Post-Earthquake Fires Reza Imani, Ph.D., Thornton Tomasetti; Gilberto Mosqueda, Ph.D., University of California at San Diego; Michel Bruneau, Ph.D., P.E., University at Buffalo</p>	<p>Investigation of a Tall Ordinary Reinforced Concrete Frame Building Utilizing Uncertainty in Limit State Capacity and Demand Gary Hart, Ph.D., Thornton Tomasetti</p> <p>A Case Study on Construction Defects of Reinforced Concrete Walls with Insulated Concrete Formisbrahim Erdem, Ph.D., P.E., S.E., and David Peraza, P.E., Exponent Inc.</p> <p>Evaluation and Repair of Insufficiently Reinforced Precast Concrete Double Tee Members Kevin Conroy, S.E., P.E., Simpson, Gumpertz & Heger; Kurt Hoigard, P.E., SECB, Raths, Raths & Johnson, Inc.</p> <p>Performance of Industrial Concrete Floors for Wheeled Traffic Clemens Rossell, P.E., M.ASCE; Mosen Abdi, P.E., S.E., M.ASCE; Ted Chen, P.E., M.ASCE; and Wendell Bailey Jr., P.E., M.ASCE, The Boeing Company</p>	<p>Lifting Columns of Existing Structures Under Existing Loads Ali Ashrafi, Ph.D.; Lisa Davey, P.E.; and John Abruzzo, P.E., Thornton Tomasetti</p> <p>Ceiling Failures James Jordan, P.E., S.E.; Ross Kimble, P.E.; and Sharer Andrew, P.E., Rimkus Consulting Group, Inc.</p> <p>Investigation of Sprayed Fire-Resistive Material and In-Situ Bond Failure Lauren Millman, Ph.D.; Elisabeth Malsch, P.E., Ph.D.; Michele Cyr, P.E., Ph.D.; and Liling Cao, P.E., Ph.D., Thornton Tomasetti</p> <p>Numerical Simulation of Cement-treated Soil Reinforced with Coir Fiber Subjected to Flexural Loading Vivi Anggraini, M.Eng; Afshin Asadi, Ph.D.; Bujang Bin Kim Huat, Ph.D.; and Agusril Syamsir, Ph.D., Universiti Tenaga Nasional</p>
10:00 – 10:30 a.m.		Networking Break	
10:30 a.m. – 12:00 p.m.		Concurrent Technical Sessions	
TRACK A - Concerto A	TRACK B - Concerto B	TRACK C - Concerto C	TRACK D - Concerto D
<p>Building Envelope, Geotechnical, Performance of Materials ACI 562: Concrete Evaluation and Repair Track Chair: Leonard Morse-Fortier, Simpson, Gumpertz & Heger Moderator: Keith Kesner, WDP Consulting Engineers, PC</p>	<p>Forensic Investigations I – Hurricanes, Failures During Construction, Methodology, Disasters Blast Track Chair: Ken Kenneth L. Carper, Professor Emeritus Moderator: Eve Hinman, Thornton Tomasetti</p>	<p>Professional Practice, Forensic Investigations II Steel/BIM Track Chair: Lloyd M. Sonenthal, Consulting Forensic Engineer Moderator: Derrick Hancock, HSA</p>	<p>Infrastructure, Special Structures, Special Topics Latin American Forensic Engineering Track Chair: Michael Lester, Element Analytical PLLC Moderator: Alicia Diaz de Leon</p>
<p>ACI 562 – The Concrete Repair Code Keith Kesner, Ph.D., P.E., S.E., CVM Professional</p> <p>Using ACI 562 as the Standard to Assess Damages in Existing Concrete Structures Gene Stevens, P.E., S.E., J R Harris & Company</p> <p>Structural Repair of a Concrete Parking Garage Structure Using ACI 562 Kevin Conroy, S.E., P.E., and Gustavo Tumialan, Ph.D., P.E., Simpson, Gumpertz & Heger</p> <p>Load Testing Techniques for Strength Evaluation of Existing Reinforced Concrete Structures Mohamed ElBatanouny, Ph.D., Wiss, Janney, Elstner Associates, Inc.; Paul Ziehl, Ph.D., P.E., University of South Carolina; Carl Larosche, P.E., Wiss, Janney, Elstner Associates, Inc.; Antonio Nanni, Ph.D., P.E., University of Miami</p>	<p>Richmond Hill Subdivision Explosion Case Study James Jordan, P.E., S.E.; Andrew Sharer, P.E.; and Ross Kimble, P.E., Rimkus Consulting Group, Inc.</p> <p>Performance of Structures Subjected to West Fertilizer Company Explosion Erik Nelson, Ph.D., P.E., and Jeffrey Hull, M.S., Nelson Forensics</p> <p>Investigation of Fragment Impact and Blast Shock Wave on Window Breakage Sebastian Mendes, Ph.D.; Liling Cao, P.E, Ph.D.; Elisabeth Malsch, P.E, Ph.D.; and Gary Panariello, P.E, S.E., Thornton Tomasetti</p>	<p>Evaluation of Damaged Steel Commercial Structure, Long Island, NY Benjamin Lavon, P.E., and Bryan Yudkin, P.E., Feld Kaminetzky & Cohen Division of GEI Consultants</p> <p>Duration of Loss: Qualitative Testing of Metal Corrosion Mike Bass, BS; Ralph Moon, Ph.D.; Nolan Wells, BME, EIT; and Christopher Martinez, MSME, EIT, GHD</p> <p>Coupon Testing: An Essential Tool for Understanding Historic Steel Dana Wolf, P.E., Thornton Tomasetti; Kevin Poulin, P.E., Ph.D., Simpson Gumpertz & Heger</p> <p>Laser Scanning and BIM Conversion Ziad Salameh, Ph.D., and Ryan Larson, P.E., S.E., ZSLLC</p>	<p>Panel includes: Norbert Delatte, P.E., Ph.D., F.ACI, F.ASCE, Ohio State University Juan Carlos Gramajo, Ing., Argos Consultores (Guatemala) Clemens J. Rossell, P.E., M.ASCE, The Boeing Company</p> <p><i>See page 8 for a full description of this panel discussion.</i></p>
CONCLUSION OF THE 7TH FORENSIC CONGRESS			